

Title (en)

Photodegradative process for the purification of contaminated water

Title (de)

Photolytisches Verfahren zur Reinigung von kontaminiertem Wasser

Title (fr)

Procédé de photodégradation pour la purification des eaux contaminées

Publication

EP 1167300 A1 20020102 (EN)

Application

EP 01112220 A 20010518

Priority

IT MI20001405 A 20000622

Abstract (en)

A photodegradative process is described for the purificabastion of water contaminated by ether-based compounds, especially methylterbutyl ether (MTBE) or its analogous products, which comprises the following steps: (a) treatment of the contaminated water with an inorganic acid up to a pH ranging from 4.0 to 4.5 with the elimination of the carbon dioxide thus formed; (b) dispersion in the water of solid particles of a metal oxide of the semiconductor type or dissolution of a stream consisting of ozone in pure oxygen or air; (c) irradiation of the dispersion or solution obtained in step (b) with ultraviolet light to degrade the ether-based contaminants. <IMAGE>

IPC 1-7

C02F 1/72; C02F 1/32

IPC 8 full level

C02F 1/72 (2006.01); **C02F 1/30** (2006.01); **C02F 1/32** (2006.01); **C02F 1/66** (2006.01); **C02F 1/78** (2006.01)

CPC (source: EP US)

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Citation (search report)

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